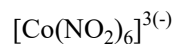




>>Entry Name: Hexakis(nitrito-*N*)cobaltate(III)(3-)

Synonym(s): Hexanitrocobaltate(III)(3-), 8Cl



Molecular Formula:  $\text{CoN}_6\text{O}_{12}^{3(-)}$

Molecular Weight: 334.966

Accurate Mass: 334.890622

Percentage Composition: Co 17.59%; N 25.09%; O 57.32%

>>Derivative: Tri-Na salt

Synonym(s): Sodium cobaltinitrite

CAS Registry Number: 13600-98-1

Molecular Formula:  $\text{CoN}_6\text{Na}_3\text{O}_{12}$

Molecular Weight: 403.936

Accurate Mass: 403.859923

Percentage Composition: Co 14.59%; N 20.81%; Na 17.07%; O 47.53%

Use/Importance: Commercially available. Used for detn. of K

Physical Description: Yellow or brownish-yellow cryst.

Solubility: V. sol.  $\text{H}_2\text{O}$ ; sl. sol. EtOH

Other Data: Solns. may be stabilised by addn. of HOAc

Aldrich: 46373-6

Fluka: 71610

Sigma: S6396

>>Derivative: Tri-Rb salt

CAS Registry Number: 14589-74-3

Physical Description: Lemon-yellow cryst.

>>Derivative: Tri-Cs salt

CAS Registry Number: 14553-17-4

Physical Description: Lemon-yellow cryst.

#### References:

Nakagawa, I. *et al.*, *Inorg. Chem.*, 1968, **7**, 1332, (*synth, ir, cryst struct*)

Smith, R., *Toxicol. Appl. Pharmacol.*, 1970, **17**, 634, (*reactions*)

Brauer, G., *Handbuch Prap. Anorg. Chem.*, 3rd edn., Ferdinand Enke Verlag, 1975, **3**, 1683, (*synth*)

Ohba, S. *et al.*, *Acta Cryst. B*, 1978, **34**, 3535, (*cryst struct*)

Kanamori, K. *et al.*, *J.C.S. Dalton*, 1988, 1827, (*Raman, uv-vis*)

*Merck Index*, 11th edn., 1989, No. 8551

Au-Yeung, S.C.F. *et al.*, *J.A.C.S.*, 1990, **112**, 7482, (*N-14 nmr, Co-59 nmr*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, SFX750